

DPM 951

HOOKER Industrial & Specialty Chemicals

MATERIAL SAFETY DATA SHEET

I. Product Information

PRODUCT NAME: Phosphoric Acid

CAS REGISTRY NO.: 7664-38-2

COMMON NAME OR SYNONYM: Phosphoric Acid

CHEMICAL FAMILY: Liquid Acid Corrosive

CHEMICAL NAME: Orthophosphoric Acid

CHEMICAL FORMULA: H_3PO_4

II. Health Data

FIRST AID MEASURES:

Eyes and Skin: Flush with large amounts of water.

Ingestion: Dilute by drinking large amounts of water, induce vomiting.

Inhalation: Removal to clean air is usually sufficient; for severe exposure, oxygen may be administered.

Treatment is symptomatic and no specific antidotes as known.

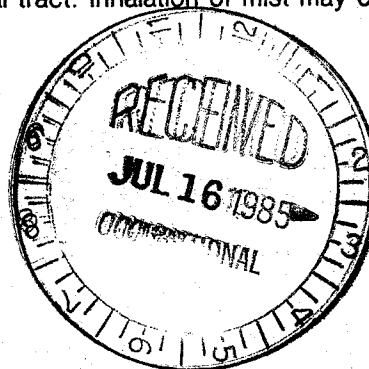
EFFECTS OF OVEREXPOSURE:

Acute: Contact with skin and eyes causes irritation and can produce burns. Ingestion can cause irritation and burning of the mucuous membranes of the gastro-intestinal tract. Inhalation of mist may cause irritation of the respiratory tract.

Chronic:

Route:

Toxicity:



Emergency Telephone Number Available 24 Hrs./Day 1-716-278-7021

II. Fire And Explosion Hazard Data

FLASH POINT: None
METHOD:

FLAMMABLE LIMITS:
(In Air % by Vol.)
Lower _____ Upper _____

AUTO IGNITION
TEMPERATURE: None _____

EXTINGUISHING
MEDIA:

SPECIAL FIRE FIGHTING
PROCEDURE & PERSONAL
PROTECTION:

As appropriate for surrounding fire.

UNUSUAL FIRE AND
EXPLOSION HAZARDS:

Will liberate hydrogen upon contact with many metals. Protect personnel against mist, vapor or
splashes

Special Protection

VENTILATION: General room ventilation.

RESPIRATORY: Mist protection where appropriate.
(Type)

GLOVES: Rubber, neoprene.
(Type)

EYE PROTECTION: Chemical safety goggles, plus face shields where appropriate.
(Type)

OTHER PROTECTIVE EQUIPMENT:

Rubber over leather shoes or rubber safety shoes. Rubber or other impervious clothing to protect
against splashes

Physical Data

BOILING POINT 275° F (135° C) as
760 mm Hg: 75% solution

VAPOR PRESSURE 77° F (25° C)
mm Hg 20° C @ 5 mm Hg

VAPOR DENSITY
(Air = 1):

SOLUBILITY IN very soluble
WATER: (% by WT.)

APPEARANCE AND COLOR: odorless, viscous liquid

SPECIFIC GRAVITY 1.574
(H₂O = 1):

pH:

PERCENT VOLATILE:
(By Volume)

EVAPORATION RATE:
(Butyl Acetate = 1)

OTHER:

VI. Hazardous Ingredients

INGREDIENTS PRESENTING A SIGNIFICANT HAZARD	%	THRESHOLD LIMIT VALUE (See Section XI)
Threshold limit value, 1 milligram per cubic meter.		

VII. Hazardous Reactivity**INCOMPATIBILITY:**

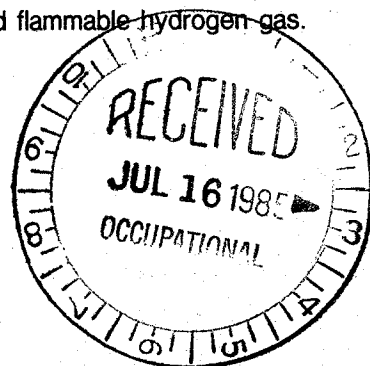
Reacts vigorously with alkalies producing heat; with many metals, producing heat and flammable hydrogen gas.

**HAZARDOUS DECOMPOSITION
PRODUCTS:**

Heating to decomposition yields fumes of toxic phosphorous pentoxide.

CONDITIONS TO AVOID:

Avoid contact with skin and eyes. Avoid contact with strong alkalies or with metals except certain stainless steels.

**VIII. Handling And Storage****HANDLING AND STORAGE
PRECAUTIONS:**

Store away from heat and separate from caustic soda, caustic potash, and other strong alkalies. In case of:
FIRE — Material will not burn. Use water or other extinguishing medium as appropriate for surrounding fire.

Solution when heated gives off toxic fumes. Use self-contained breathing apparatus and full protective equipment.
All fires liberate toxic gases.

IX. Environmental Protection

PROCEDURE IN CASE OF SPILL OR RELEASE:

Get personnel protective equipment. For large spills, contain by dikes of sand or earth. If spill enters sewer, dilute with water. For small spills, neutralize carefully with limestone or soda ash. Then rinse area with water.

WASTE DISPOSAL METHOD:

Flush to retention area. Neutralize with limestone or controlled dilute caustic soda before discharge to stream or sewer. Bury acid-soaked clay in approved landfill.

X. Regulatory Status

DOT Name:	Phosphoric Acid
Technical Name:	Phosphoric Acid
Hazard Class:	Corrosive Material
Label Required:	Corrosive
Identification No.:	UN 1805 (RQ)
TSCA: CAS No.:	7664-38-2

Authorized Shipping Document Description

DOT Rail:	Phosphoric Acid, Corrosive Material, UN 1805, RQ, Placarded Corrosive
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DOT Truck and UPS:	Phosphoric Acid, Corrosive Material, US 16805, RQ
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XI. Additional Information

See Tech Data Sheet 902 for more information.

Current Reportable Quantity (RQ) is 5000 pounds (about 379 U.S. gallons).

HCC SUBSTANCE NO. 5122

For more information write:

DATE 7-17-1984 ☐ NEW ☒ REVISED

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